

TABLE OF CONTENTS

List of Tables.....	iii
List of Acronyms and Abbreviations	iv
Interagency Coordinating Committee on the Validation of Alternative Methods (ICCVAM) Designated Agency Representatives	vi
ICCVAM Dermal Corrosivity and Irritation Working Group (DCIWG) Members	vii
National Toxicology Program Interagency Center for the Evaluation of Alternative Toxicological Methods (NICEATM) Staff	viii
Preface.....	ix
Executive Summary	x
<i>In Vitro</i> Membrane Barrier Test Systems for Skin Corrosion.....	xi
<i>In Vitro</i> Human Skin Model Systems for Skin Corrosion.....	xii
<i>In Vitro</i> Skin Transcutaneous Electrical Resistance (TER) Tests for Skin Corrosion	xiii
1.0 Purpose and Background of Performance Standards	1
1.1 Introduction.....	1
1.2 Elements of ICCVAM Performance Standards.....	1
1.3 ICCVAM Process for the Development of Performance Standards	2
1.4 ICCVAM Development of Recommended Performance Standards for <i>In Vitro</i> Test Methods for Skin Corrosion.....	3
2.0 <i>In Vitro</i> Membrane Barrier Test Systems For Skin Corrosion	11
2.1 Background	11
2.2 Principles of <i>In Vitro</i> Membrane Barrier Test Systems for Skin Corrosion.....	11
2.3 Essential Test Method Components	12
2.4 Reference Chemicals	15
2.5 Accuracy and Reliability.....	16
3.0 <i>In Vitro</i> Human Skin Model Systems for Skin Corrosion	21
3.1 Background	21
3.2 Principles of <i>In Vitro</i> Human Skin Model Systems for Skin Corrosion	21
3.3 Essential Test Method Components	22
3.4 Reference Chemicals	25
3.5 Accuracy and Reliability.....	25
4.0 <i>In Vitro</i> Skin Transcutaneous Electrical Resistance (TER) Tests For Skin Corrosion	29
4.1 Background	29
4.2 Principles of the <i>In Vitro</i> Skin TER Test for Skin Corrosion.....	29
4.3 Essential Test Method Components	30
4.4 Reference Chemicals	35
4.5 Accuracy and Reliability.....	37
5.0 References	39

Appendices

- A. *Federal Register Notice (July 1, 2003):*
Notice of Availability of the ICCVAM Dermal Corrosivity and Irritation Working Group Proposed Minimum Performance Standards (MPS) for Three Types of In Vitro Methods for Assessing the Dermal Corrosivity Hazard Potential of Chemicals; Request for Comments..... A-1
- B. Public Comments in Response to the *Federal Register Notice* (July 1, 2003)..... B-1
- C. Minutes of the EPA Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Scientific Advisory Panel (SAP) Meeting (October 28 and 29, 2003) C-1